

Bowdoin College)	Departmental
Cumberland County)	Findings of Fact and Order
Brunswick, ME)	Air Emission License
A-76-71-J-M)	Amendment #2

After review of the air emissions license amendment application, staff investigation reports and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A., Section 344 and Section 590, the Department finds the following facts:

I. REGISTRATION

A. Introduction

Bowdoin College in Brunswick, Maine is licensed to operate emission sources associated with their educational facility. Bowdoin College has submitted a minor revision request for the addition of a small boiler used for heating purposes.

Bowdoin College is currently operating under air emission license A-76-71-G-R (issued January 12, 1999) and amendment A-76-71-I-A (July 31, 2001). The facility is licensed for three main boilers, 11 smaller boilers/hot water heaters, and ten emergency generators.

B. Equipment

This minor revision addresses the following equipment:

Boiler			
<u>Equipment</u>	<u>Maximum Capacity (MMBtu/hr)</u>	<u>Maximum Firing Rate (gal/hr)</u>	<u>Fuel Type, % sulfur</u>
MacMillan House Burnham Boiler	1.386	9.6	#2 fuel oil, 0.35%

C. Application Classification

The application submitted by Bowdoin College has been classified as a minor revision and has been processed under Chapter 115 of the Department's regulations. The minor revision thresholds of 4 tons per year of any one regulated

pollutant and 8 tons per year total regulated pollutants will not be exceeded. Facility licensed allowed emissions will remain the same as previously licensed.

II. MINOR REVISION DESCRIPTION

The MacMillan House Boiler is a Burnham boiler with a maximum heat input capacity of 1.386 MMBtu/hr. Best Available Control Technology (BACT) for this boiler is the firing of #2 fuel oil with a maximum sulfur content of 0.35%.

The BACT emission limits for the boiler are based on the following:
 PM/PM₁₀ – 0.12 lb/MMBtu, Chapter 103 of the Department’s regulations
 SO₂ – combustion of 0.35% sulfur #2 fuel oil
 NO_x – 0.2 lb/MMBtu
 CO – 5 lb/1000 gal: AP-42, Table 1.3-2
 VOC – 0.34 lb/1000 gal: AP-42, Table 1.3-4

Opacity from the boiler shall not exceed 20% opacity on a 6 minute block average, except for not more than 2 six minute block averages in a 3 hour block period.

Total annual facility licensed emissions shall remain unchanged.

ORDER

Based on the above Findings and subject to conditions listed below, the Department concludes that the emissions from this source:

- will receive Best Practical Treatment,
- will not violate applicable emission standards,
- will not violate applicable ambient air quality standards in conjunction with emissions from other sources.

The Department hereby grants Air Emission License amendment A-76-71-J-M subject to the conditions found in Air Emission License A-76-71-G-R, in the subsequent amendment A-76-71-I-A, and in the following conditions:

Bowdoin College
Cumberland County
Brunswick, ME
A-76-71-J-M

)
)
)
3

**Departmental
Findings of Fact and Order
Air Emission License
Amendment #2**

NEW CONDITIONS

(28) MacMillan House Boiler

A. The MacMillan House Boiler (1.386 MMBtu/hr) shall not exceed the following emission limits:

<u>Pollutant</u>	<u>Lb/hr</u>
PM	0.16
PM ₁₀	0.16
SO ₂	0.47
NO _x	0.27
CO	0.05
VOC	0.003

B. The MacMillan House Boiler shall fire #2 fuel with a sulfur content not to exceed 0.35%. Fuel records shall be maintained per condition (26) of air emission license amendment A-76-71-I-A.

C. Opacity from the boiler shall not exceed 20% opacity on a 6 minute block average, except for not more than 2 six minute block averages in a 3 hour period.

(29) The term of this amendment shall be concurrent with the term of air emission license A-76-71-G-R.

DONE AND DATED IN AUGUSTA, MAINE THIS DAY OF 2002.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: _____
MARTHA G. KIRKPATRICK, COMMISSIONER

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: February 7, 2002

Date of application acceptance: February 12, 2002

Date filed with the Board of Environmental Protection: _____

This Order prepared by Kathleen E. Neil, Bureau of Air Quality.